

TGGGGCGGGGTTAGATCCTGGGGGGTTTATTTTCATTAC
 TTTGGCTTGAAGTCGTGCAGGTCAGGGGAGTGTTGCCCCGAAAACA
 TTGAGAGGAAAACAAAAACCGATGTTTGATTGGGGGAATCGGGGG
 TTACGATACTAGGACGCAGTGACTGCTATCACCTTGGCGGTCTC
 175 TTGTTGAAAGGAATAATTACTCTAGTGTCGACTCACACATCTTCA
 M S T H T S S
 220 ACGCTTCCAGCATTCAAAAAGATCTTGGTAGCAAACCGCGGCGAA
 T L P A F K K I L V A N R G E
 265 ATCGCGGTCCGTGCTTTCCGTGCAGCACTCGAAACCGGTGCAGCC
 I A V R A F R A A L E T G A A
 310 ACGGTAGCTATTTACCCCCGTGAAGATCGGGGATCATTCCACCGC
 T V A I Y P R E D R G S F H R
 355 TCTTTTGCTTCTGAAGCTGTCCGCATTGGTACCGAAGGCTCACCA
 S F A S E A V R I G T E G S P
 400 GTCAAGGCGTACCTGGACATCGATGAAATTATCGGTGCAGCTAAA
 V K A Y L D I D E I I G A A K
 445 AAAGTTAAAGCAGATGCCATTTACCCGGGATACGGCTTCCTGTCT
 K V K A D A I Y P G Y G F L S
 490 GAAAATGCCCAGCTTGCCCGCGAGTGTGCGGAAAACGGCATTACT
 E N A Q L A R E C A E N G I T
 535 TTTATTGGCCCAACCCCGAGAGGTTCTTGATCTCACCGGTGATAAG
 F I G P T P E V L D L T G D K
 580 TCTCGCGCGGTAACCGCCGCGAAGAAGGCTGGTCTGCCAGTTTGT
 S R A V T A A K K A G L P V L
 625 GCGGAATCCACCCCGAGCAAAAACATCGATGAGATCGTTAAAAGC
 A E S T P S K N I D E I V K S
 670 GCTGAAGGCCAGACTTACCCCATCTTTGTGAAGGCAGTTGCCGGT
 A E G Q T Y P I F V K A V A G
 715 GGTGGCGGACGCGGTATGCGTTTTGTTGCTTCACCTGATGAGCTT
 G G G R G M R F V A S P D E L
 760 CGCAAATTAGCAACAGAAGCATCTCGTGAAGCTGAAGCGGCTTTC
 R K L A T E A S R E A E A A F
 805 GGCGATGGCGCGGTATATGTGAACGTGCTGTGATTAACCCTCAG
 G D G A V Y V E R A V I N P Q
 850 CATATTGAAGTGCAGATCCTTGGCGATCACACTGGAGAAGTTGTA
 H I E V Q I L G D H T G E V V
 895 CACCTTTATGAACGTGACTGCTCACTGCAGCGTCGTCACCAAAAA
 H L Y E R D C S L Q R R H Q K
 940 GTTGTGCGAAATTGCGCCAGCACAGCATTTGGATCCAGAACTGCGT
 V V E I A P A Q H L D P E L R

FIG. 1A

985 GATCGCATTTGTGCGGATGCAGTAAAGTTCTGCCGCTCCATTGGT
 D R I C A D A V K F C R S I G
 1030 TACCAGGGCGCGGGAACCGTGGAATTCTTGGTTCGATGAAAAGGGC
 Y Q G A G T V E F L V D E K G
 1075 AACCACGTCTTCATCGAAATGAACCCACGTATCCAGGTTGAGCAC
 N H V F I E M N P R I Q V E H
 1120 ACCGTGACTGAAGAAGTCACCGAGGTGGACCTGGTGAAGGCGCAG
 T V T E E V T E V D L V K A Q
 1165 ATGCGCTTGGCTGCTGGTGCAACCTTGAAGGAATTGGGTCTGACC
 M R L A A G A T L K E L G L T
 1210 CAAGATAAGATCAAGACCCACGGTGCAGCACTGCAGTGCCGCATC
 Q D K I K T H G A A L Q C R I
 1255 ACCACGGAAGATCCAAACAACGGCTTCCGCCCAGATACCGGAACT
 T T E D P N N G F R P D T G T
 1300 ATCACCGCGTACCGCTCACCAGGCGGAGCTGGCGTTCGTCTTGAC
 I T A Y R S P G G A G V R L D
 1345 GGTGCAGCTCAGCTCGGTGGCGAAATCACCGCACACTTTGACTCC
 G A A Q L G G E I T A H F D S
 1390 ATGCTGGTGAAAATGACCTGCCGTGGTTCCGACTTTGAAACTGCT
 M L V K M T C R G S D F E T A
 1435 GTTGCTCGTGACAGCGCGCGTTGGCTGAGTTCACCGTGTCTGGT
 V A R A Q R A L A E F T V S G
 1480 GTTGCAACCAACATTGGTTTCTTGCGTGCGTTGCTGCGGGAAGAG
 V A T N I G F L R A L L R E E
 1525 GACTTCACTTCCAAGCGCATCGCCACCGGATTCATTGCCGATCAC
 D F T S K R I A T G F I A D H
 1570 CCGCACCTCCTTCAGGCTCCACCTGCTGATGATGAGCAGGGACGC
 P H L L Q A P P A D D E Q G R
 1615 ATCCTGGATTACTTGGCAGATGTCACCGTGAACAAGCCTCATGGT
 I L D Y L A D V T V N K P H G
 1660 GTGCGTCCAAAGGATGTTGCAGCTCCTATCGATAAGCTGCCTAAC
 V R P K D V A A P I D K L P N
 1705 ATCAAGGATCTGCCACTGCCACGCGGTTCCCGTGACCGCCTGAAG
 I K D L P L P R G S R D R L K
 1750 CAGCTTGGCCCAGCCGCGTTTGCTCGTGATCTCCGTGAGCAGGAC
 Q L G P A A F A R D L R E Q D
 1795 GCACTGGCAGTTACTGATACCACCTTCCGCGATGCACACCAGTCT
 A L A V T D T T F R D A H Q S

FIG. 1B

1840 TTGCTTGCGACCCGAGTCCGCTCATTGCGACTGAAGCCTGCGGCA
 L L A T R V R S F A L K P A A
 1885 GAGGCCGTGCGCAAAGCTGACTCCTGAGCTTTTGTCCGTGGAGGCC
 E A V A K L T P E L L S V E A
 1930 TGGGGCGGCGCGACCTACGATGTGGCGATGCGTTTCCTCTTTGAG
 W G G A T Y D V A M R F L F E
 1975 GATCCGTGGGACAGGCTCGACGAGCTGCGCGAGGCGATGCCGAAT
 D P W D R L D E L R E A M P N
 2020 GTAAACATTGAGATGCTGCTTCGCGGCCGCAACACCGTGGGATAC
 V N I Q M L L R G R N T V G Y
 2065 ACCCGGTACCCAGACTCCGTCTGCCGCGCGTTTGTTAAGGAAGCT
 T P Y P D S V C R A F V K E A
 2110 GCCAGCTCCGGCGTGGACATCTTCCGCATCTTCGACGCGCTTAAC
 A S S G V D I F R I F D A L N
 2155 GACGTCTCCCAGATGCGTCCAGCAATCGACGCAGTCCTGGAGACC
 D V S Q M R P A I D A V L E T
 2200 AACACCGCGGTAGCCGAGGTGGCTATGGCTTATTCTGGTGATCTC
 N T A V A E V A M A Y S G D L
 2245 TCTGATCCAAATGAAAAGCTCTACACCCTGGATTACTACCTAAAG
 S D P N E K L Y T L D Y Y L K
 2290 ATGGCAGAGGAGATCGTCAAGTCTGGCGCTCACATCTTGGCCATT
 M A E E I V K S G A H I L A I
 2335 AAGGATATGGCTGGTCTGCTTCGCCCAGCTGCGGTAACCAAGCTG
 K D M A G L L R P A A V T K L
 2380 GTCACCGCACTGCGCCGTGAATTCGATCTGCCAGTGACGTGCAC
 V T A L R R E F D L P V H V H
 2425 ACCCAGCACTGCGGGTGGCCAGCTGGCAACCTACTTTGCTGCA
 T H D T A G G Q L A T Y F A A
 2470 GCTCAAGCTGGTGCAGATGCTGTTGACGGTGCTTCCGCACCACTG
 A Q A G A D A V D G A S A P L
 2515 TCTGGCACCACCTCCCAGCCATCCCTGTCTGCCATTGTTGCTGCA
 S G T T S Q P S L S A I V A A
 2560 TTCGCGCACACCCGTGCGGATACCGGTTTGAGCCTCGAGGCTGTT
 F A H T R R D T G L S L E A V
 2605 TCTGACCTCGAGCCGTACTGGGAAGCAGTGCGCGGACTGTACCTG
 S D L E P Y W E A V R G L Y L
 2650 CCATTTGAGTCTGGAACCCAGGCCCAACCGGTGCGGTCTACCGC
 P F E S G T P G P T G R V Y R
 2695 CACGAAATCCCAGGCGGACAGTTGTCCAACCTGCGTGACAGGCC
 H E I P G G Q L S N L R A Q A

FIG. 1C